

Table and Column Definitions Report

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Total Pages:	18
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Parameters

Workarea:	GLOBAL SHARED WORKAREA
Container:	IAPP
Table / View / Materialized View:	%
Include Tables?	Y
Include Views?	Y
Include Materialized Views?	Y
Data Structure Diagram:	IAPP_WHSE_SMD
Exclude Prefix:	
Include Table / View / MV Descriptions?	Y
Include Table / View / MV Comments?	N
Include Column Descriptions?	Y
Include Column Comments?	N
Include Column Notes?	Y
Include Unique Constraints?	Y
Include Foreign Key Constraints?	Y
Include Check Constraints?	Y
Include Indexes?	Y

Table: IAPP_BIOLOGICAL_AGENT*Description:*

Identifies an organism used to control an invasive alien plant. Examples: *Aceria chondrillae*, *Longitarsus jacobaeae* (Waterhouse), *Trichosirocalus horridus* (Panzer).

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	BIOLOGICAL_AGENT	NOT NULL	VARCHAR2(8)
	Unique code identifying the bioagent with a space inserted as the fourth character for display.		
20	LATIN_NAME	NOT NULL	VARCHAR2(120)
	LATIN_NAME is made up of the combination of the Latin Genus and Species names for the Biological Agent.		

Table: IAPP_BIOLOGICAL_DISPERSAL_POLY*Description:*

An observation of a biocontrol agent that had not been released at this site.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	BIOLOGICAL_DISPERSAL_ID Primary unique numeric identifier for a biological dispersal.	NOT NULL	NUMBER(10)
20	SITE_ID Primary unique numeric identifier for a site.	NOT NULL	NUMBER(10)
30	GEOMETRY A polygon representing the boundary of a biological monitoring activity. The polygon has two possible sources: it is generated by buffering the point described by the biological monitoring UTM Coordinate; it is captured through digitized geometry that is loaded from external sources.	NOT NULL	
31	FEATURE_AREA FEATURE AREA is the area of the GEOMETRY polygon measured in hectares.	NOT NULL	NUMBER
40	FEATURE_CODE An alphanumeric code used to identify a feature component. All CCSM feature codes are generated according to the Canadian Council on Survey and Mapping (CCSM) Draft Standard on feature code classification.	NOT NULL	VARCHAR2(10)
50	INVASIVE_PLANT The 4 character code for the Invasive Plant Species genus concatenated with the 3 character code for the Invasive Plant Species species.	NOT NULL	VARCHAR2(8)
60	INSPECTION_DATE Date on which the inspection was made.	NOT NULL	DATE
61	BIOLOGICAL_AGENT Unique code identifying the bioagent with a space inserted as the fourth character for display.	NULL	VARCHAR2(8)
70	PRESENCE_IND Indicates the presence of a bioagent.	NOT NULL	VARCHAR2(1)
80	UTM_EASTING The Universal Transverse Mercator location reference. This is the Easting reference (metres east of the Central Meridian of the zone).	NULL	NUMBER(6)
90	UTM_NORTHING The Universal Transverse Mercator location reference. This is the Northing reference (metres north of the Equator).	NULL	NUMBER(7)
91	UTM_ZONE The Universal Transverse Mercator location reference known as the Zone reference. Ranges from 8 to 11 for British Columbia.	NULL	NUMBER(2)
150	APP_LINK An http link to view the entity represented by the polygon within the IAPP web application	NOT NULL	VARCHAR2(120)
225	OBJECTID OBJECTID is a unique surrogate key used to register the layer in ArcSDE.	NOT NULL	NUMBER(38)

Unique Constraints:

IAPP_BDP_OID_UK
OBJECTID

Indexes:

IAPP_BDP_IPSP_FK_I
SITE_ID
IAPP_BDP_SP_I
GEOMETRY

Table: IAPP_BIOLOGICAL_MONITOR_POLY**Description:**

An inspection of a biocontrol treatment to determine presence at a given location, density per plant or area, amount and type of damage per plant or area, and direction, distance, and rate of movement from release point.

For most operational biological control programs, checking for presence will be the only monitoring function. If there is doubt as to whether a release has been made in an area before, or if it is possible that agents have naturally distributed themselves into an area, monitoring of the weed stand should be conducted before a new release is made. Biological control releases can fail at a given site during establishment for various reasons. New releases should therefore be monitored for establishment within 1-2 years to determine if a supplementary release is necessary.

[Source: Field Guide to the Biological Control of Weeds in British Columbia,
<http://www.for.gov.bc.ca/hfd/pubs/Docs/Lmh/Lmh27-3.pdf>]

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	MONITORING_ID Primary unique numeric identifier for a monitoring.	NOT NULL	NUMBER(10)
20	TREATMENT_ID Primary unique numeric identifier for an invasive plant control.	NOT NULL	NUMBER(10)
30	SITE_ID Primary unique numeric identifier for a site.	NOT NULL	NUMBER(10)
31	GEOMETRY A polygon representing the boundary of a biological monitoring activity. The polygon has two possible sources: it is generated by buffering the point described by the biological monitoring UTM Coordinate; it is captured through digitized geometry that is loaded from external sources.	NOT NULL	
40	FEATURE_AREA FEATURE AREA is the area of the GEOMETRY polygon measured in hectares.	NOT NULL	NUMBER
50	FEATURE_CODE An alphanumeric code used to identify a feature component. All CCSM feature codes are generated according to the Canadian Council on Survey and Mapping (CCSM) Draft Standard on feature code classification.	NOT NULL	VARCHAR2(10)
60	INVASIVE_PLANT The 4 character code for the Invasive Plant Species genus concatenated with the 3 character code for the Invasive Plant Species species.	NOT NULL	VARCHAR2(8)
70	TREATMENT_DATE Date on which the control was applied.	NOT NULL	DATE
71	INSPECTION_DATE Date on which the inspection was made.	NOT NULL	DATE
80	BIOLOGICAL_AGENT Unique code identifying the bioagent with a space inserted as the fifth character for display.	NULL	VARCHAR2(8)
90	PRESENCE_IND Indicates the presence of a bioagent.	NOT NULL	VARCHAR2(1)
100	UTM_EASTING The Universal Transverse Mercator location reference. This is the Easting reference (metres east of the Central Meridian of the zone).	NULL	NUMBER(6)
110	UTM_NORTHING The Universal Transverse Mercator location reference. This is the Northing reference (metres north of the Equator).	NULL	NUMBER(7)
111	UTM_ZONE The Universal Transverse Mercator location reference known as the Zone reference. Ranges from 8 to 11 for British Columbia.	NULL	NUMBER(2)
150	APP_LINK An http link to view the entity represented by the polygon within the IAPP web application	NOT NULL	VARCHAR2(120)
225	OBJECTID OBJECTID is a unique surrogate key used to register the layer in ArcSDE.	NOT NULL	NUMBER(38)

Unique Constraints:

IAPP_BMP_OID_UK
 OBJECTID

Table: IAPP_BIOLOGICAL_MONITOR_POLY (cont'd)*Indexes:*

IAPP_BMO_BA_I
BIOLOGICAL_AGENT
IAPP_BMP_IP_I
INVASIVE_PLANT
IAPP_BMP_SP_I
GEOMETRY

Table: IAPP_BIOLOGICAL_TREATMENT_POLY*Description:*

An application of a biological control. Biological control is the use of a weed's natural enemies (chiefly insects and pathogens) to reduce its population below a desired level. It can be divided into the following two approaches: inundative and classical. Inundative biological control uses mass application of an organism to attempt to eliminate a weed from an area. Like all such methods, it does not deal with the residual seed bank in the soil or prevent the weed from establishing from another source at a later date. Classical biological control uses the weed's natural enemies to establish a long-term balance between the biological control organism and the weed. [Source: Integrated Pest Management, <http://www.for.gov.bc.ca/hfp/noxious/integrat.htm>]

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 20	TREATMENT_ID Primary unique numeric identifier for an invasive plant control.	NOT NULL	NUMBER(10)
30	SITE_ID Primary unique numeric identifier for a site.	NOT NULL	NUMBER(10)
40	GEOMETRY A polygon representing the boundary of a treatment. The polygon has two possible sources: it is generated by buffering the point described by the treatment UTM Coordinate; it is captured through digitized geometry that is loaded from external sources.	NOT NULL	
50	FEATURE_AREA FEATURE AREA is the area of the GEOMETRY polygon measured in hectares.	NOT NULL	NUMBER
60	FEATURE_CODE An alphanumeric code used to identify a feature component. All CCSM feature codes are generated according to the Canadian Council on Survey and Mapping (CCSM) Draft Standard on feature code classification.	NOT NULL	VARCHAR2(10)
70	INVASIVE_PLANT The 4 character code for the Invasive Plant Species genus concatenated with the 3 character code for the Invasive Plant Species species.	NOT NULL	VARCHAR2(8)
80	TREATMENT_DATE Date on which the control was applied.	NOT NULL	DATE
90	BIOLOGICAL_AGENT Unique code identifying the bioagent with a space inserted as the fourth character for display.	NULL	VARCHAR2(8)
100	RELEASE_QUANTITY Number of insects released.	NULL	NUMBER(6)
110	UTM_EASTING The Universal Transverse Mercator location reference. This is the Easting reference (metres east of the Central Meridian of the zone).	NULL	VARCHAR2(40)
120	UTM_NORTHING The Universal Transverse Mercator location reference. This is the Northing reference (metres north of the Equator).	NULL	VARCHAR2(40)
130	UTM_ZONE The Universal Transverse Mercator location reference known as the Zone reference. Ranges from 8 to 11 for British Columbia.	NULL	VARCHAR2(40)
140	APP_LINK An http link to view the entity represented by the polygon within the IAPP web application	NOT NULL	VARCHAR2(120)
225	OBJECTID OBJECTID is a unique surrogate key used to register the layer in ArcSDE.	NOT NULL	NUMBER(38)

Unique Constraints:

IAPP_BTP_OID_UK
OBJECTID

Indexes:

IAPP_BTP_DT_I
TREATMENT_DATE
IAPP_BTP_IPSP_FK_I
SITE_ID
IAPP_BTP_SP_I
GEOMETRY

Table: IAPP_CHEMICAL_TREATMENT_POLY**Description:**

Polygon geometry for a chemical treatment area. An application of a herbicide. Various herbicides are used for spot treatments of weeds in British Columbia. The herbicide selected should depend on the target weed species and environmental factors. Application rate will be dictated by the size and accessibility of the infestation, its proximity to wells and other water, and the potential impacts of the application on non-target vegetation. Some herbicides have residual effects and persist in the soil in an active state for some time after application. Other herbicides become inactive once they contact soil. The residual activity of a herbicide varies with rate of application, soil properties, and climate, and its impact on non-target vegetation should be carefully considered. Includes attribute data for the treatment.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 20	TREATMENT_ID Primary unique numeric identifier for an invasive plant control.	NOT NULL	NUMBER(10)
30	SITE_ID Primary unique numeric identifier for a site.	NOT NULL	NUMBER(10)
35	GEOMETRY A polygon representing the boundary of a treatment. The polygon has two possible sources: it is generated by buffering the point described by the treatment UTM Coordinate; it is captured through digitized geometry that is loaded from external sources.	NOT NULL	
50	FEATURE_AREA FEATURE AREA is the area of the GEOMETRY polygon measured in hectares.	NOT NULL	NUMBER
60	FEATURE_CODE An alphanumeric code used to identify a feature component. All CCSM feature codes are generated according to the Canadian Council on Survey and Mapping (CCSM) Draft Standard on feature code classification.	NOT NULL	VARCHAR2(10)
70	INVASIVE_PLANT The 4 character code for the Invasive Plant Species genus concatenated with the 3 character code for the Invasive Plant Species species.	NOT NULL	VARCHAR2(8)
80	TREATMENT_DATE Date on which the control was applied.	NOT NULL	DATE
90	AREA_TREATED Area (hectares) treated with the chemical control.	NULL	NUMBER(15,4)
100	HERBICIDE_CODE Unique code identify the herbicide.	NOT NULL	VARCHAR2(1)
110	HERBICIDE The full name of the herbicide used in the treatment.	NOT NULL	VARCHAR2(120)
120	CHEMICAL_METHOD Indicates the application method for the herbicide. Examples: Boomless Nozzle, Fixed Boom.	NOT NULL	VARCHAR2(120)
130	UTM_EASTING The Universal Transverse Mercator location reference. This is the Easting reference (metres east of the Central Meridian of the zone).	NULL	VARCHAR2(40)
140	UTM_NORTHING The Universal Transverse Mercator location reference. This is the Northing reference (metres north of the Equator).	NULL	VARCHAR2(40)
150	UTM_ZONE The Universal Transverse Mercator location reference known as the Zone reference. Ranges from 8 to 11 for British Columbia.	NULL	VARCHAR2(40)
170	APP_LINK An http link to view the entity represented by the polygon within the IAPP web application	NOT NULL	VARCHAR2(120)
225	OBJECTID OBJECTID is a unique surrogate key used to register the layer in ArcSDE.	NOT NULL	NUMBER(38)

Unique Constraints:

IAPP_CTP_OID_UK
OBJECTID

Indexes:

IAPP_CTP_DT_I
TREATMENT_DATE
IAPP_CTP_IPSP_FK_I

Table: IAPP_CHEMICAL_TREATMENT_POLY (cont'd)*Indexes:*

SITE_ID
IAPP_CTP_SP_I
GEOMETRY

Table: IAPP_CONTAINMENT_AREA_SP*Description:*

IAPP CONTAINMENT AREA SP is a closed polygon which delineates an invasive plant population within this established boundary where action is taken to prevent its spread beyond the polygon. Treatment within the polygon will occur for a specific invasive plant when critical thresholds are met or exceeded as defined by the treatment matrix. Containment lines are normally drawn at a provincial (broad) scale and are intended to mimic distinct geographic breaks such as height-of-land, a river or major highway.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 2	CONTAINMENT_POLY_ID CONTAINMENT POLY ID is a unique surrogate key for the materialized view IAPP CONTAINMENT AREA SP.	NOT NULL	NUMBER(10)
5	INVASIVE_PLANT INVASIVE PLANT is a concatenation of the 4 character GENUS CODE and the 3 character SPECIES CODE that form the a unique key for the IAPP INVASIVE PLANT SPECIES materialized view. The GENUS CODE and SPECIES CODE are used together by the business to identify Invasive Plant species.	NOT NULL	VARCHAR2(8)
10	GEOMETRY GEOMETRY is a closed polygon which delineates a "containment line" for an invasive plant species. Containment lines are normally drawn at a provincial (broad) scale and are intended to mimic distinct geographic breaks such as height-of-land, a river or major highway. The polygon is captured through digitized geometry that is loaded from external sources.	NOT NULL	
40	FEATURE_AREA FEATURE AREA is the area of the GEOMETRY polygon measured in square meters. This column is included so that Oracle Spatial functions are not required to determine the area of the GEOMETRY.	NOT NULL	NUMBER
50	FEATURE_CODE FEATURE CODE is an alphanumeric code used to identify a feature component. All CCSM feature codes are generated according to the Canadian Council on Survey and Mapping (CCSM) Draft Standard on feature code classification.	NOT NULL	VARCHAR2(10)
70	ENTRY_TIMESTAMP ENTRY_TIMESTAMP contains the time the record was entered.	NOT NULL	DATE
225	OBJECTID OBJECTID is a unique surrogate key used to register the layer in ArcSDE.	NOT NULL	NUMBER(38)

Unique Constraints:

IAPP_CA_OID_UK
OBJECTID

Indexes:

IAPP_CA_IP_I
INVASIVE_PLANT
IAPP_CA_SP_I
GEOMETRY

Table: IAPP_HERBICIDE_CODE*Description:*

Identifies a herbicide - a pesticide used to kill plants and control vegetation. Examples: Tordon 22K, Round-up. [Source: Integrated Pest Management Manual for Landscape Pests in British Columbia, <http://wlapwww.gov.bc.ca/epd/epdpa/eripm/landspdf/glosary.pdf>].

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	HERBICIDE_CODE Unique code identify the herbicide.	NOT NULL	VARCHAR2(1)
20	DESCRIPTION Description of the code.	NOT NULL	VARCHAR2(120)
30	EFFECTIVE_DATE Effective date/time	NOT NULL	DATE
40	EXPIRY_DATE Expiry date/time	NOT NULL	DATE
50	UPDATE_TIMESTAMP UPDATE_TIMESTAMP contains the time the record was updated.	NOT NULL	DATE

Table: IAPP_INVASIVE_PLANT*Description:*

Invasive plants (also commonly referred to as "weeds") are typically non-native plants that have found their way into British Columbia without the insect predators and/or plant pathogens that help keep them in check in their native habitats. Noxious weeds are weeds that have been designated as noxious by the Ministry of Agriculture and Food's Weed Act. Weeds often exhibit aggressive growth and typically out-compete native plant species in new habitats. As a result, weeds are difficult to control and can adversely affect BC's natural resources. [Source: Invasive Plant Program Home Page, <http://www.for.gov.bc.ca/hfp/noxious/index.htm>]

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	INVASIVE_PLANT_ID Primary unique numeric identifier for an invasive plant.	NOT NULL	NUMBER(10)
20	ENTRY_TIMESTAMP ENTRY_TIMESTAMP contains the time the record was entered.	NOT NULL	DATE
30	ENTRY_USERID ENTRY_USERID contains the id of the user who entered the record.	NOT NULL	VARCHAR2(30)
40	UPDATE_TIMESTAMP UPDATE_TIMESTAMP contains the time the record was updated.	NOT NULL	DATE
50	UPDATE_USERID UPDATE_USERID contains the id of the user who updated the record.	NOT NULL	VARCHAR2(30)
60	REVISION_COUNT Used to ensure data consistency during updates to entities. The revision count will be checked before performing the update to ensure the update is being applied to the version it started with.	NOT NULL	NUMBER(10,0)
70	SPECIES_CODE The 3 character code for the Invasive Plant Species species.	NOT NULL	VARCHAR2(3)
80	GENUS_CODE The 4 character code for the Invasive Plant Species genus.	NOT NULL	VARCHAR2(4)
90	SITE_ID Primary unique numeric identifier for a site.	NOT NULL	NUMBER(10)

Indexes:

IAPP_IP_IPSP_FK_I
SITE_ID
IAPP_IP_IPS_FK_I
GENUS_CODE
SPECIES_CODE

Table: IAPP_INVASIVE_PLANT_SITE_POLY**Description:**

An area with confirmed ground sightings of invasive alien plants. Within this inventory area, all roads accessible by a four-wheel drive vehicle that cross potential habitat will be checked for occurrences of invasive plants. Plants on both sides of the road will be identified as far as can be seen from the road, or as defined for specific inventory projects. In addition, all major disturbances including but not limited to landings, log sort yards, burned areas, gravel pits, air strips, landfills, parking lots, construction or maintenance sites and recreational sites and trails within the potential habitat will be checked. [Source: IAPP Inventory Standards - Interim for 2004, <http://www.for.gov.bc.ca/hcp/fia/landbase/MoFIPPIInventoryStandards.pdf>]

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	SITE_ID Primary unique numeric identifier for a site.	NOT NULL	NUMBER(10)
20	GEOMETRY A polygon representing the boundary of an Invasive Alien Plant site. The polygon has two possible sources: it is generated by buffering the point described by the Site UTM Coordinate; it is captured through digitized geometry that is loaded from external sources.	NOT NULL	
30	FEATURE_AREA FEATURE AREA is the area of the GEOMETRY polygon measured in hectares.	NOT NULL	NUMBER
40	FEATURE_CODE An alphanumeric code used to identify a feature component. All CCSM feature codes are generated according to the Canadian Council on Survey and Mapping (CCSM) Draft Standard on feature code classification.	NOT NULL	VARCHAR2(10)
50	SITE_CREATED_DATE Date on which this site was initially created.	NOT NULL	DATE
60	SLOPE Steepness of the ground, in percent.	NULL	NUMBER(3)
70	ASPECT Compass bearing in degrees of the direction in which a slope faces.	NULL	NUMBER(3)
80	ELEVATION Distance above sea-level, in metres.	NULL	NUMBER(5)
90	BGC_LABEL The BGC_LABEL is a concatenation of the BEC attributes Zone, Subzone, Variant and Phase to create a biogeoclimatic label suitable for map labelling. This label may include spaces to buffer each portion to the specified lengths. The first four chars are the zone, next three are the sub zone followed by one character for each of the variant and phase.	NULL	VARCHAR2(9)
130	BEC_SITE_SERIES All sites capable of producing the same mature or climax plant communities within a biogeoclimatic subzone or variant.	NULL	VARCHAR2(4)
140	UTM_EASTING The Universal Transverse Mercator location reference. This is the Easting reference (metres east of the Central Meridian of the zone).	NULL	VARCHAR2(40)
150	UTM_NORTHING The Universal Transverse Mercator location reference. This is the Northing reference (metres north of the Equator).	NULL	VARCHAR2(40)
160	UTM_ZONE The Universal Transverse Mercator location reference known as the Zone reference. Ranges from 8 to 11 for British Columbia.	NULL	VARCHAR2(40)
170	MAPSHEET The 1:20,000 BCGS (British Columbia Geographic System) Mapsheet Number.	NOT NULL	VARCHAR2(7)
180	RANGE_UNIT_ID Primary unique numeric identifier for a range unit.	NULL	VARCHAR2(10)
200	JURISDICTION The authority or title owner for the parcel of land that a site resides on. Examples: Crown Land, Military, Indian Reserves.	NOT NULL	VARCHAR2(120)
210	MAP_LABEL The concatenation of the map symbols of all the invasive plants on the site.	NULL	VARCHAR2(50)
220	APP_LINK An http link to view the entity represented by the polygon within the IAPP web application	NOT NULL	VARCHAR2(120)
225	OBJECTID	NOT NULL	NUMBER(38)

Table: IAPP_INVASIVE_PLANT_SITE_POLY (cont'd)*Columns:*

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
	OBJECTID		

OBJECTID is a unique surrogate key used to register the layer in ArcSDE.

Unique Constraints:

IAPP_IPSP_OID_UK
OBJECTID

Indexes:

IAPP_IPSP_SP_I
GEOMETRY

Table: IAPP_INVASIVE_PLANT_SPECIES*Description:*

Identifies the species of an invasive alien plant. Examples: Abutilon theophrasti (Velvet leaf), Madia glomerata (Cluster tarweed), Tribulus terrestris (Puncturevine).

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	GENUS_CODE The 4 character code for the Invasive Plant Species genus.	NOT NULL	VARCHAR2(4)
* 20	SPECIES_CODE The 3 character code for the Invasive Plant Species species.	NOT NULL	VARCHAR2(3)
30	LATIN_NAME Latin name for the invasive plant species. Examples: Abutilon theophrasti, Carduus nutans, Chrysanthemum leucanthemum.	NOT NULL	VARCHAR2(100)
40	COMMON_NAME Common name for the invasive plant species. Examples: Velvet leaf, Nodding thistle, Oxeye daisy.	NOT NULL	VARCHAR2(100)
50	MAP_SYMBOL Used for labeling on maps.	NOT NULL	VARCHAR2(2)
60	ENTRY_TIMESTAMP ENTRY_TIMESTAMP contains the time the record was entered.	NOT NULL	DATE
70	ENTRY_USERID ENTRY_USERID contains the id of the user who entered the record.	NOT NULL	VARCHAR2(30)
80	UPDATE_TIMESTAMP UPDATE_TIMESTAMP contains the time the record was updated.	NOT NULL	DATE
90	UPDATE_USERID UPDATE_USERID contains the id of the user who updated the record.	NOT NULL	VARCHAR2(30)

Table: IAPP_INVASIVE_PLANT_SURVEY*Description:*

An historical record of all surveys done regarding a particular species of invasive plant on the site. Provides a chronological recording of the change in distribution and density of invasive plants on the site.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
* 10	SURVEY_ID Primary unique numeric identifier for an Invasive Plant Survey.	NOT NULL	NUMBER(10)
20	PAPER_FILE_ID The file identification number used to reference the corresponding paperwork for this record.	NULL	VARCHAR2(20)
30	ESTIMATED_AREA Estimated area (hectares) covered by the invasive alien plant.	NOT NULL	NUMBER(15,4)
45	SURVEY_DATE Date on which the presence of this invasive alien plant was recorded.	NOT NULL	DATE
50	PRECISE_SURVEY_IND Indicates that the survey data was collected by precise methods specified in program documentation.	NOT NULL	VARCHAR2(1)
60	FOUND_IND Indicates that the Invasive Plant was found on this survey. If this indicator is false then estimated area must be zero and distribution and density codes must be null.	NOT NULL	VARCHAR2(1)
70	COMMENTS A free-format, user-entered comment on the invasive alien plant.	NULL	VARCHAR2(2000)
80	ENTRY_TIMESTAMP ENTRY_TIMESTAMP contains the time the record was entered.	NOT NULL	DATE
90	ENTRY_USERID ENTRY_USERID contains the id of the user who entered the record.	NOT NULL	VARCHAR2(30)
100	UPDATE_TIMESTAMP UPDATE_TIMESTAMP contains the time the record was updated.	NOT NULL	DATE
110	UPDATE_USERID UPDATE_USERID contains the id of the user who updated the record.	NOT NULL	VARCHAR2(30)
120	REVISION_COUNT Used to ensure data consistency during updates to entities. The revision count will be checked before performing the update to ensure the update is being applied to the version it started with.	NOT NULL	NUMBER(10,0)
130	INVASIVE_PLANT_DISTRIB_CODE Unique code identifying the distribution of the plants.	NULL	VARCHAR2(1)
140	INVASIVE_PLANT_DENSITY_CODE Unique code identifying the density of the plants.	NULL	VARCHAR2(1)
150	EMPLOYER_ID Primary unique numeric identifier for an employer.	NULL	NUMBER(10)
160	INVASIVE_PLANT_ID Primary unique numeric identifier for an invasive plant.	NOT NULL	NUMBER(10)
170	INVASIVE_PLANT_AGENCY_CODE Unique code identifying the agency.	NOT NULL	VARCHAR2(4)

Indexes:

IAPP_SRVEY_IP_FK_I
INVASIVE_PLANT_ID

Table: IAPP_MECHANICAL_TREATMENT_POLY**Description:**

An application of a mechanical or cultural control. Mechanical weed control employs various implements and techniques to physically disturb weeds or to interrupt their reproduction by depleting root reserves through repeated defoliation of the plant. Mechanical control includes the mowing, ploughing, chopping, and crushing of weeds.

Cultural control includes selective grazing, irrigation and deliberate flooding, mulching, hand pulling, and burning. Strategies and timing should depend on the weed species and its location in the province.

[Source: Integrated Pest Management, <http://www.for.gov.bc.ca/hfp/noxious/integrat.htm>]

Columns:

Seq.	Column	Nulls?	Type
* 20	TREATMENT_ID Primary unique numeric identifier for an invasive plant control.	NOT NULL	NUMBER(10)
21	SITE_ID Primary unique numeric identifier for a site.	NOT NULL	NUMBER(10)
30	GEOMETRY A polygon representing the boundary of a treatment. The polygon has two possible sources: it is generated by buffering the point described by the treatment UTM Coordinate; it is captured through digitized geometry that is loaded from external sources.	NOT NULL	
31	FEATURE_AREA FEATURE AREA is the area of the GEOMETRY polygon measured in hectares.	NOT NULL	NUMBER
40	FEATURE_CODE An alphanumeric code used to identify a feature component. All CCSM feature codes are generated according to the Canadian Council on Survey and Mapping (CCSM) Draft Standard on feature code classification.	NOT NULL	VARCHAR2(10)
50	INVASIVE_PLANT The 4 character code for the Invasive Plant Species genus concatenated with the 3 character code for the Invasive Plant Species species.	NOT NULL	VARCHAR2(8)
60	TREATMENT_DATE Date on which the control was applied.	NOT NULL	DATE
70	AREA_TREATED Area (hectares) over which the mechanical control was applied.	NULL	NUMBER(15,4)
80	MECHANICAL_METHOD MECHANICAL_METHOD is a term describing the mechanical control method used.	NOT NULL	VARCHAR2(120)
130	UTM_EASTING The Universal Transverse Mercator location reference. This is the Easting reference (metres east of the Central Meridian of the zone).	NULL	VARCHAR2(40)
140	UTM_NORTHING The Universal Transverse Mercator location reference. This is the Northing reference (metres north of the Equator).	NULL	VARCHAR2(40)
145	UTM_ZONE The Universal Transverse Mercator location reference known as the Zone reference. Ranges from 8 to 11 for British Columbia.	NULL	VARCHAR2(40)
160	APP_LINK An http link to view the entity represented by the polygon within the IAPP web application	NOT NULL	VARCHAR2(120)
225	OBJECTID OBJECTID is a unique surrogate key used to register the layer in ArcSDE.	NOT NULL	NUMBER(38)

Unique Constraints:

IAPP_MTP_OID_UK
OBJECTID

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Table: IAPP_SITE_BIO_TRTMT_VW*Description:*

Used for the Highlight Biological Treatment custom query in the IAPP - Map Display IMF application. Returns all invasive plants. Includes the corresponding Site ID for the plant and indicates if the invasive plant has been treated biologically. If the BIOLOGICAL_AGENT column is null then the invasive plant has not been treated biologically. If the BIOLOGICAL_AGENT column contains either the biological agent or 'UNKNOWN' the invasive plant has been treated biologically.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
10	SITE_ID Primary unique numeric identifier for an invasive plant site.	NULL	VARCHAR2(240)
20	INVASIVE_PLANT The 4 character code for the Invasive Plant genus and the 3 character code for the invasive plant species concatenated together with a separating space. Invasive plants (also commonly referred to as "weeds") are typically non-native plants that have found their way into British Columbia without the insect predators and/or plant pathogens that help keep them in check in their native habitats.	NULL	VARCHAR2(240)
30	BIOLOGICAL_AGENT Identifies an organism used to control an invasive alien plant, if that plant has been treated biologically and the agent is known. If the BIOLOGICAL_AGENT column is null then the invasive plant has not been treated biologically. If the BIOLOGICAL_AGENT column contains either the biological agent or 'UNKNOWN' the invasive plant has been treated biologically.	NULL	VARCHAR2(240)

Table: IAPP_SITE_CHEM_TRTMT_VW*Description:*

Used for the Highlight Chemical Treatment custom query in the IAPP - Map Display IMF application. Returns all invasive plants. Includes the corresponding Site ID for the plant and indicates if the invasive plant has been treated chemically. If the HERBICIDE_CODE column is null then the invasive plant has not been treated chemically. If the HERBICIDE_CODE column contains the herbicide code then the invasive plant has been treated chemically with that herbicide.

Columns:

<u>Seq.</u>	<u>Column</u>	<u>Nulls?</u>	<u>Type</u>
10	SITE_ID	NULL	VARCHAR2(240)
	Primary unique numeric identifier for an invasive plant site.		
20	INVASIVE_PLANT	NULL	VARCHAR2(240)
	The 4 character code for the Invasive Plant genus and the 3 character code for the invasive plant species concatenated together with a separating space. Invasive plants (also commonly referred to as "weeds") are typically non-native plants that have found their way into British Columbia without the insect predators and/or plant pathogens that help keep them in check in their native habitats.		
30	HERBICIDE_CODE	NULL	VARCHAR2(240)
	Identifies the herbicide used to treat the invasive plant, if that plant has been treated chemically. If the HERBICIDE_CODE column is null then the invasive plant has not been treated chemically. If the HERBICIDE_CODE column contains the herbicide code then the invasive plant has been treated chemically with that herbicide.		